



Gulf of Mexico Harmful Algal Bloom Bulletin

13 June 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: June 9, 2005

Conditions: A harmful algal bloom has been identified in Manatee and Sarasota counties. Patchy low to moderate impacts possible in ocean-side and bayside vicinities through Thursday.

Analysis: Due to recent cloudiness, imagery is from June 11th. Last unclouded image was from June 6th. June 11th imagery demonstrates the half way mark of Tropical Storm Arlene winds. Slight resuspension event from strong southeasterly winds and northward transport. Compared to June 6th, previously identified patchy blooms within Manatee and Sarasota counties have expanded offshore and southward to approximately 10 miles offshore of Captiva (westernmost edge at 26°36'N, 82°46'W; southeastern edge at 26°18'N, 82°20'W), with chlorophyll ranges generally from 1-3 $\mu\text{g/l}$. High chlorophyll locations are offshore of Venice (3.6 $\mu\text{g/l}$, 27°0'N, 82°31'W) and near Boca Grande (5.75 $\mu\text{g/l}$, 26°40'N, 82°19'W). As of June 6-9th, sampling confirms two medium samples in Sarasota, four medium samples in Manatee and *K. brevis* was not present in Charlotte or Lee counties (FWRI, MML).

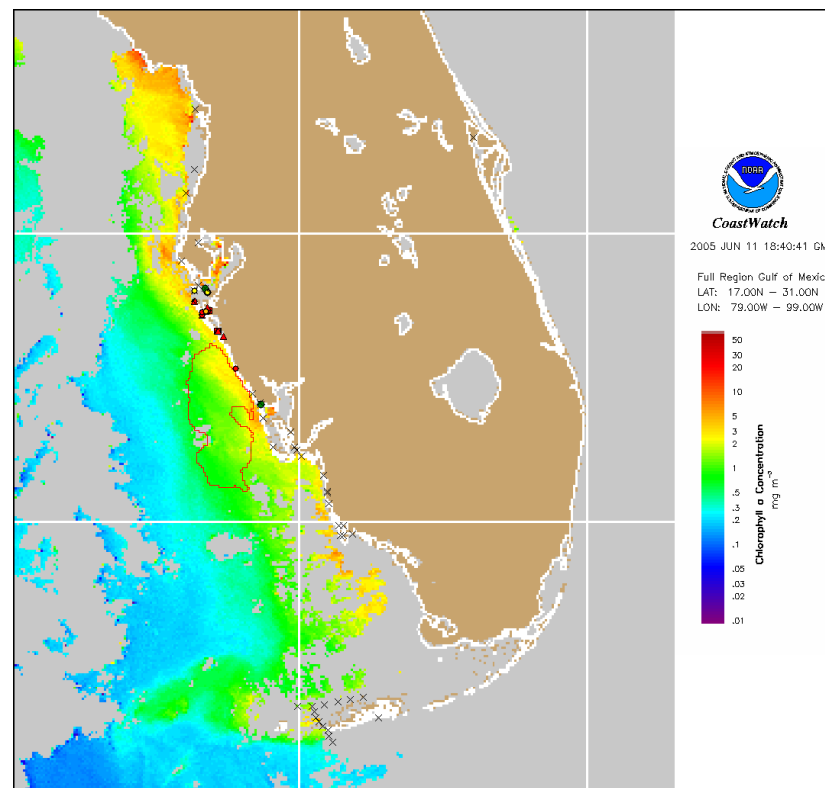
Onshore winds every afternoon this week and on Thursday may increase impacts in coastal areas and cause slight southward transport. Resuspension event and variable, light to moderate winds decrease likelihood of intensification.

Discolored water was previously reported 5- 11 miles west of Gordon Pass. A single sample taken contained *Trichodesmium* (FWRI).

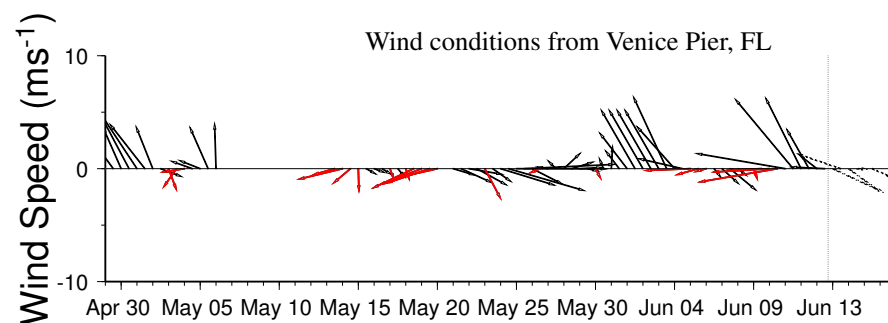
Fenstermacher & Stolz

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1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
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3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

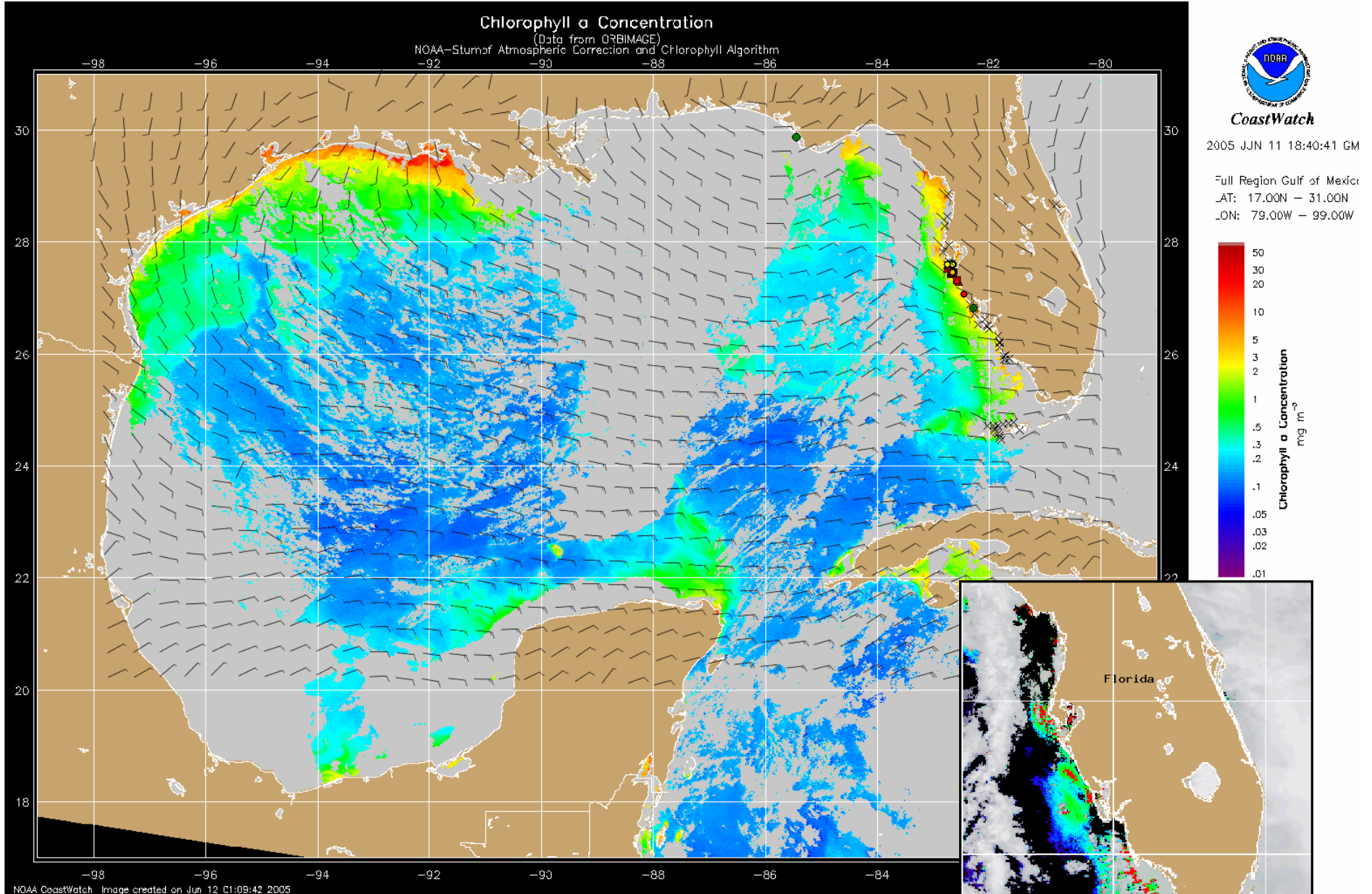


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 3, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Onshore winds this afternoon becoming easterlies in the evening (10 knots; 5 m/s). Morning southeast winds becoming westerlies in the afternoon (5-10 knots; 3-5 m/s). Variable winds Wednesday morning and westerlies on Wednesday and Thursday (5-10 knots; 3-5 m/s).



Chlorophyll concentration from satellite and forecast winds for June 14, 2005 12Z with cell concentration sampling data from June 3, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)

